

(12) UK Patent Application (19) GB (11) 2 166 188 A

(43) Application published 30 Apr 1986

(21) Application No 8524989

(22) Date of filing 10 Oct 1985

(30) Priority data

(31) 8431585 (32) 27 Oct 1984 (33) DE

(51) INT CL⁴
B65D 63/16

(52) Domestic classification
E2A 372 415 GM
U1S 2055 E2A

(56) Documents cited
None

(58) Field of search
E2A
Selected US specifications from IPC sub-classes B65D
F16B

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(54) A cable mounting device

(57) A cable mounting device has a clamping strap (1) for engagement around a cable or cables (9) to be mounted on a surface (10) and a sleeve (3) integral with the strap (1). The sleeve (3) is engageable on a screwthreaded connector pin or bolt (2) provided with radial grooves (16). The clamping strap (1) is provided with transverse grooves (13) and is formed on the lower end of the sleeve (3) with a lock means (6, 14) for engaging the clamping strap (1, 13) being formed on the upper end of the sleeve (3) on the same side of the fixing sleeve (3) as the clamping strap (1).

FIG. 1

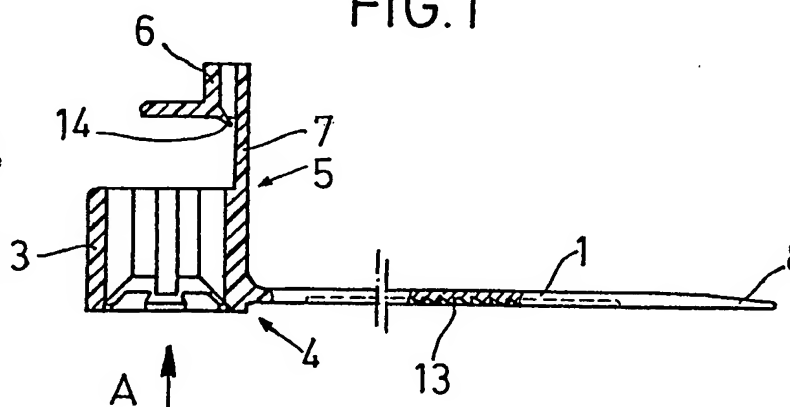
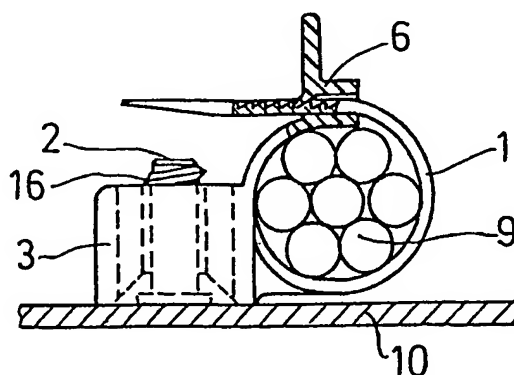


FIG. 4



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SPECIFICATION

A cable mounting device

This invention relates to a cable mounting device
 5 having a clamping strap for engagement around a
 cable or cables to be mounted, and a sleeve integral
 with the strap. The sleeve is engageable on a
 connector pin provided with radial grooves, such as
 a screwthreaded pin or bolt, to connect the device to
 10 a surface on which the cable is to be mounted. The
 clamping strap has transverse grooves and is
 provided on an end of the sleeve which is closest to
 the mounting surface when the device is connected
 thereto. A lock means for engaging the clamping
 15 strap is provided on the end of the sleeve which is
 remote from the mounting surface when the device
 is connected thereto.

In a known cable mounting device of this kind
 (German laid-open application (DE-OS) No.
 31 43 775), the lock means holding claws which
 20 serve to engage the strap are formed on the
 opposite side of the fixing sleeve to the point at
 which the strap is provided on the sleeve.

It is found that this arrangement of the cable strap
 25 lock means relative to the clamping strap suffers
 from the disadvantage that, after the strap has been
 engaged with the holding claws, the upper edge of
 the fixing sleeve intrudes into the closed holding
 space for the cable to such an extent that virtually a
 30 quarter of the internal space for accommodating the
 cable is lost. In addition, the known cable mounting
 device is also not satisfactory for visual reasons
 because the cables cannot be combined together to
 form a round bunch.

There is thus a need for a generally improved
 cable mounting device in which the strap and the
 lock means are secured to the fixing sleeve in a
 manner such that a substantially round cable bunch
 40 can be formed and mounted, which also is disposed
 as closely as possible to the mounting surface or
 plate which carries the fixing pin.

According to the present invention there is
 provided a cable mounting device having a
 clamping strap for engagement around a cable or
 45 cables to be mounted, and a sleeve integral with the
 strap, which sleeve is engageable on a connector
 pin provided with radial grooves, such as a
 screwthreaded pin or bolt, to connect the device to a
 surface on which the cable is to be mounted,
 50 wherein the clamping strap has transverse grooves
 and is provided on an end of the sleeve which is
 closest to the mounting surface when the device is
 connected as aforesaid, and wherein a lock means
 for engaging the clamping strap is provided on the
 55 end of the sleeve which is remote from the
 mounting surface when the device is connected as
 aforesaid, the lock means being provided on the
 same side of the fixing sleeve as the clamping strap.

The strap may be provided on a peripheral portion
 60 of the sleeve and merge into the sleeve periphery in
 an upwardly directed arc, for better adaptation to
 the shape of a bunch of cables.

For a better understanding of the present
 inventions, and to show how the same may be
 65 carried into effect, reference will now be made, by

way of example, to the accompanying drawings, in
 which:—

Figure 1 is a side view of a cable mounting device
 according to the invention, with a fixing sleeve and
 70 lock means being shown in section,

Figure 2 is a view from below the fixing sleeve,
 viewed in the direction of arrow A in Figure 1,

Figure 3 is a side view of part of a further
 embodiment of the invention showing an
 75 alternative way in which a clamping strap is
 provided on the fixing sleeve, and

Figure 4 shows the device of Figure 3 with a cable
 bunch fitted therein, in a mounted condition.

A cable mounting device of the invention shown
 80 in the accompanying drawings comprises a
 clamping strap 1 which is provided with transverse
 grooves 13, and a strap lock means 6 which carries a
 tongue 14 which can be elastically sprung open, for
 engaging into the grooves 13 in the inserted strap.

The cable strap, for the purposes of fixing on a
 85 connecting or fitting pin provided with radial
 grooves such as a screwthreaded pin or bolt 2, is
 integrally connected to a fixing sleeve 3 whose
 inside wall 15 is so adapted to the external
 90 screwthread 16 of the screwthreaded pin or bolt 2
 that the sleeve 3 can easily be pressed on to the
 screwthreaded pin 2 but can only be removed
 therefrom again by applying considerable force.

The strap 1 is formed or mounted on the lower
 95 outer edge 4 of the sleeve 3 which is closest to the
 mounting surface 10 in operation of the device while
 the associated strap lock means 6 is connected to
 the upper outer edge 5 of the sleeve 3, which is
 remote from the mounting surface 10 in operation
 100 of the device, but on the same side of the sleeve 3,
 by a short strap portion 7. In this way, the lock
 means 6 is located at such a spacing above the
 upper edge 5 that there is still sufficient space
 between the lock means 6 and the sleeve 3 or pin 2,
 105 for the tip 8 of the strap to be passed through the
 lock means and taken away to the sides as shown in
 Figure 4.

Figure 3 shows a preferred embodiment of the
 invention in which the strap 1 is formed on the
 110 peripheral portion 11 of the sleeve 3 and merges
 into the portion 11 in an upwardly directed arc 12.
 This ensures that the holding space defined by the
 closed strap 1 is also well rounded off in the lower
 region, and can be even better adapted to a cable
 115 bunch 9 as can be seen in Figure 4.

As can be seen from Figure 4, the clamping strap 1
 with the lock means 6 forms a substantially round
 internal space which therefore bears satisfactorily
 against the cable bunch 9 to be held in position. The
 120 bunch 9 is also carried close to the carrier plate or
 mounting surface 10 to which the screwthreaded
 pin 2 is attached such as by welding, by virtue of the
 strap 1 and the lock means 6 being formed laterally
 on the fixing sleeve 3.

It will be apparent that the form of cable strap lock
 means 6 shown is only shown by way of example
 and that any other kind of lock means or hooking
 means may be used which, when the device is
 125 moulded or cast in plastics material, may be easily
 removed from the mould with the sleeve 3 and the

strap 1 in one piece to form the device in an economically viable fashion.

CLAIMS

5 1. A cable mounting device having a clamping strap for engagement around a cable or cables to be mounted, and a sleeve integral with the strap, which sleeve is engageable on a connector pin provided with radial grooves, such as a screwthreaded pin or
10 bolt, to connect the device to a surface on which the cable is to be mounted, wherein the clamping strap has transverse grooves and is provided on an end of the sleeve which is closest to the mounting surface when the device is connected as aforesaid, and

15 wherein a lock means for engaging the clamping strap is provided on the end of the sleeve which is remote from the mounting surface when the device is connected as aforesaid, the lock means being provided on the same side of the fixing sleeve as the clamping strap.

20 2. A device according to claim 1, wherein the strap is provided on a peripheral portion of the sleeve and merges into the sleeve periphery in an upwardly directed arc.

25 3. A cable mounting device, substantially as hereinbefore described with reference to Figures 1 and 2 or Figures 3 and 4 of the accompanying drawings.